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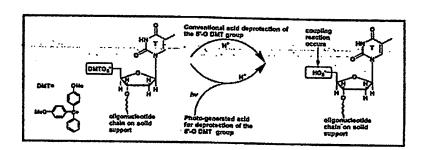


Figure 3

PCT/US2003/034207

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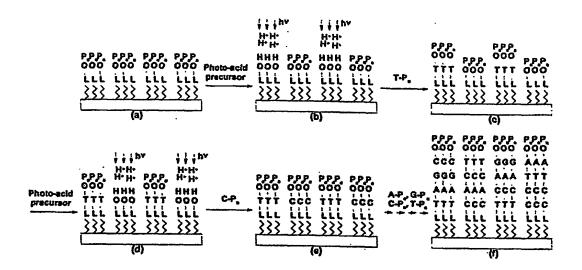


Figure 4

PCT/US2003/034207

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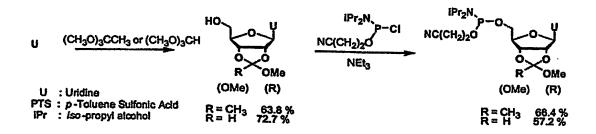


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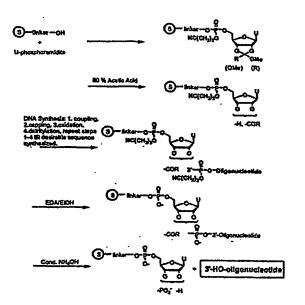


Figure 6

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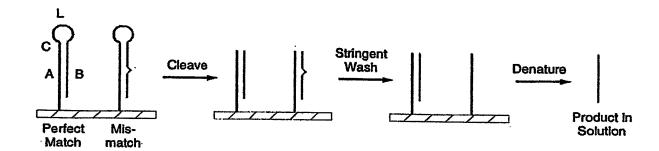
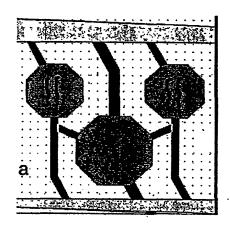
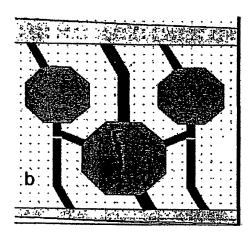


Figure 7

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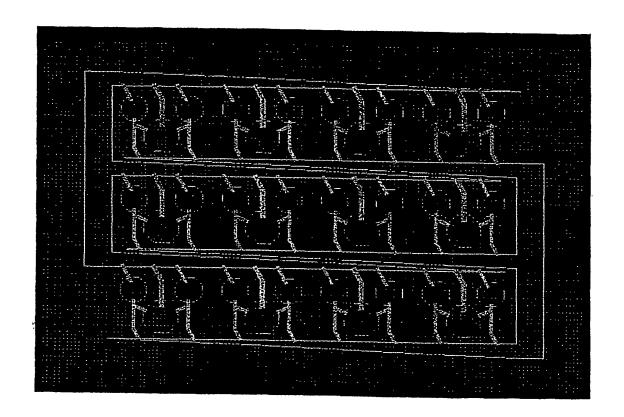
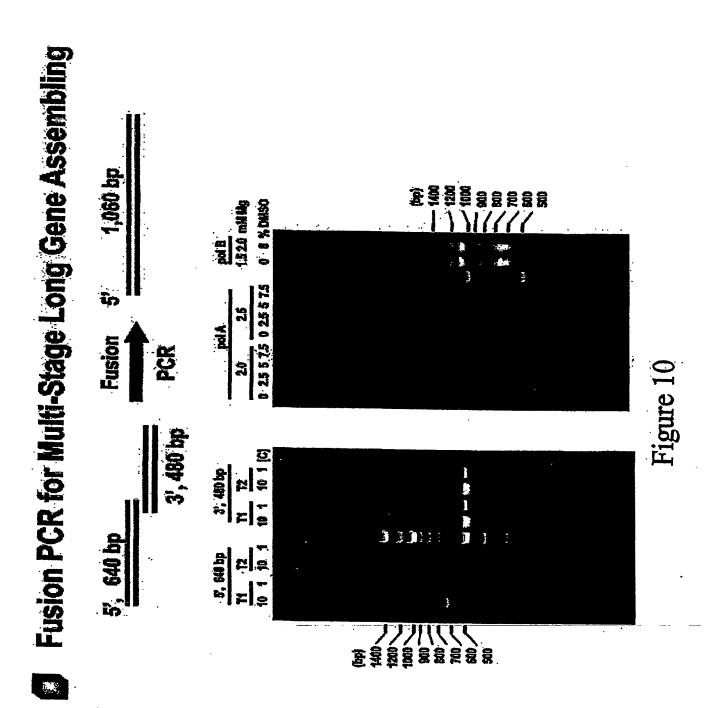


Figure 9



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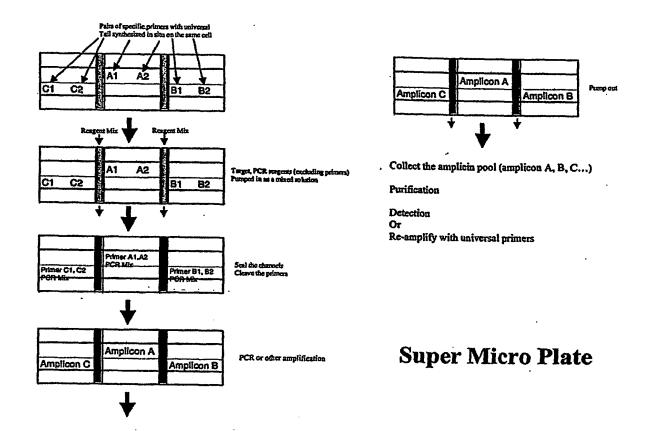


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PCT/US2003/034207

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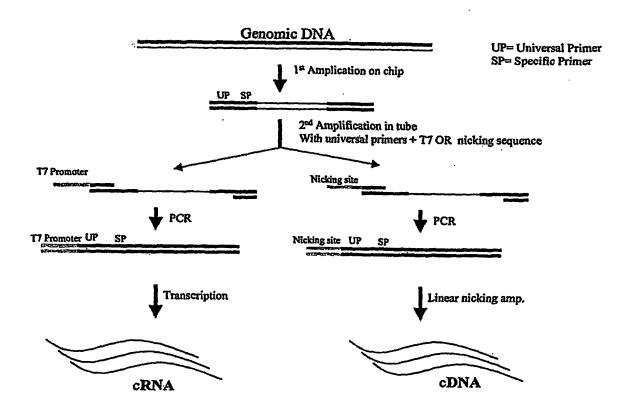


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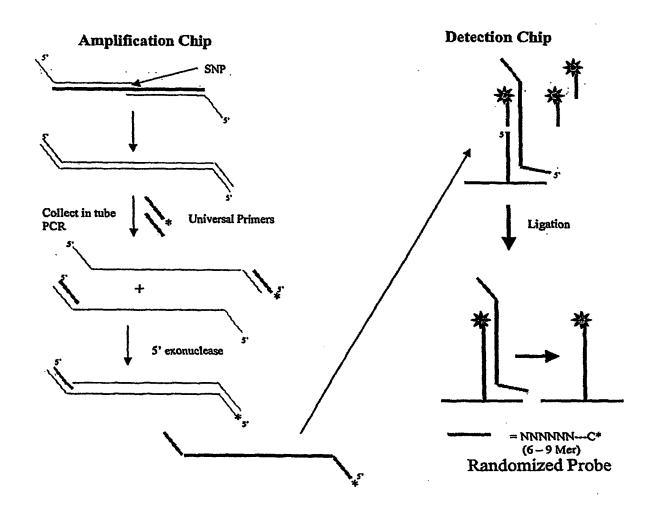


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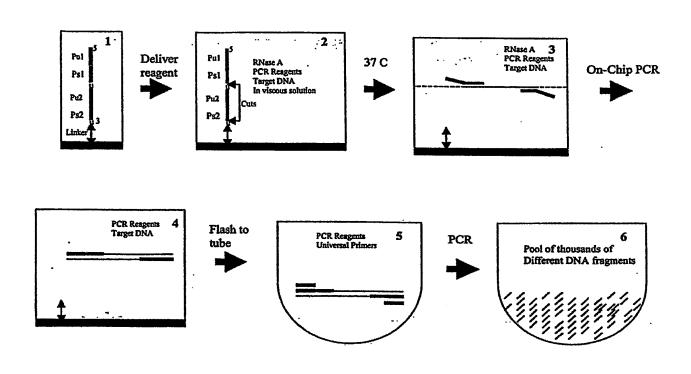
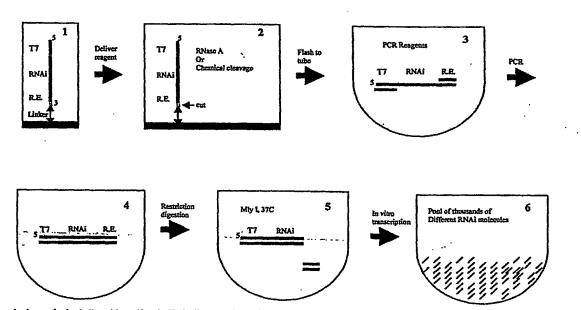


Figure 14



- In situ synthesized oligos (about 60mer). Each oligo contains a rU, one T7 promoter, specific RNAi sequence and a Mly I restriction site. Mly I is a blum cutting enzyme (GAGTCNNNNN^).

 Oligos are cleaved by RNase A or chemicals.

 Flash the oligos into tube. PCR amplify the targets with universal primers, one contains the T7 sequence and the other contains the restriction sequence. Double stranded PCR products with thousands of specific RNAi sequences and common T7 and restriction site.

 Digest the PCR products with Mly I enzyme to remove the tail.

 In vitro transcription to produce unlimited supply of RNAi pools (can be re-amplified and re-transcribed) ready for use.

- 2. 3. 4. 5. 6.

Figure 15

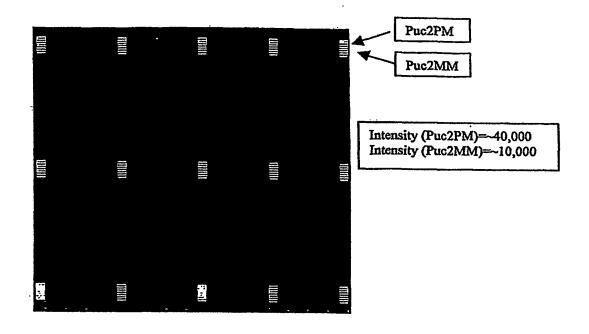


Figure 16

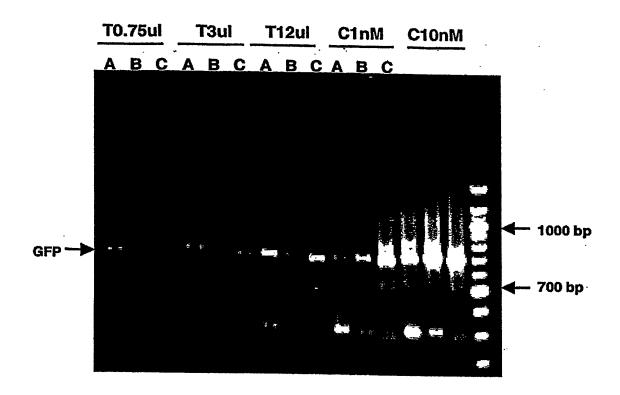


Figure 17

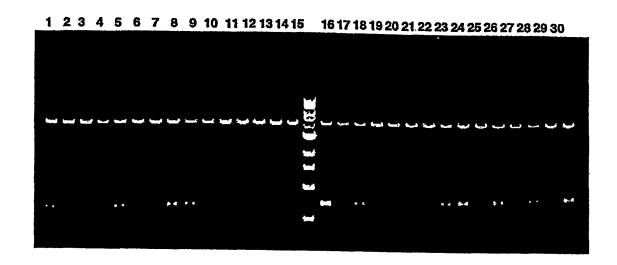


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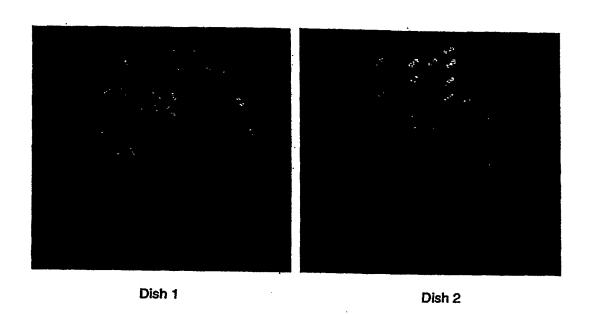


Figure 19

10/₀₅5,3,3,2,08



Figure 20

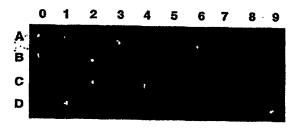


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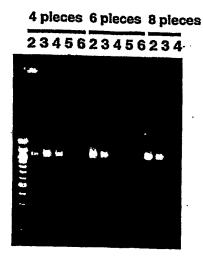
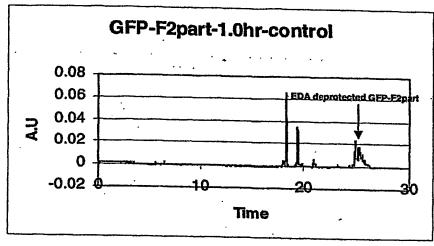


Figure 22



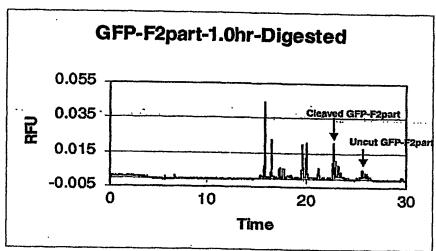
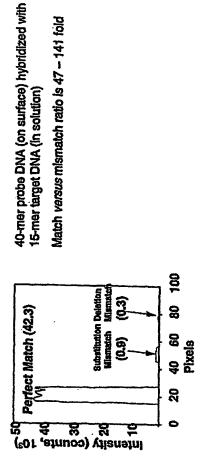


Figure 23

Hybridization Specificity by Mismatch and Deletion Tests



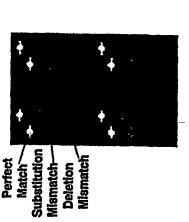
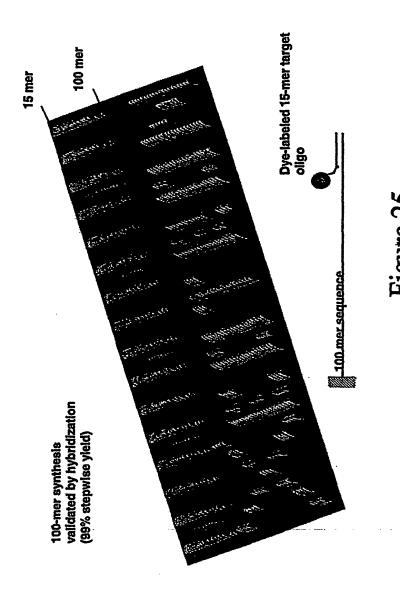


Figure 24

Synthesis of DNA Oligos Greater than 100 bases





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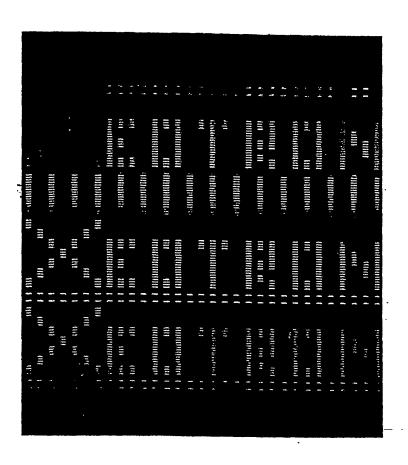


Figure 26

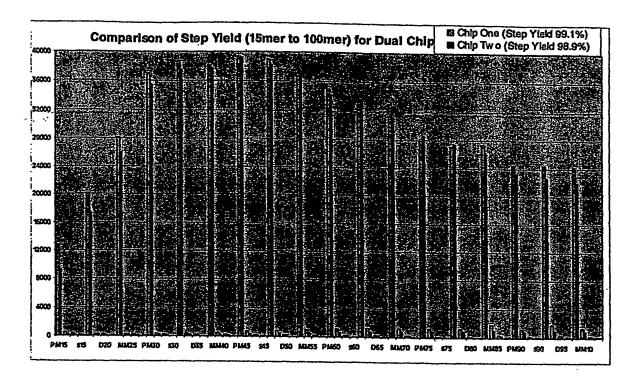


Figure 27

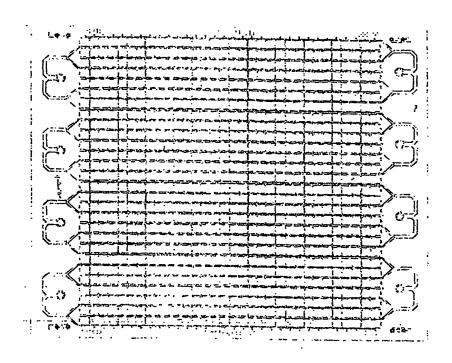


Figure 28



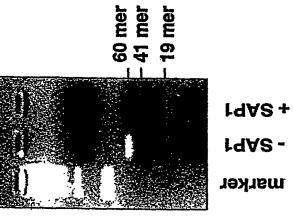


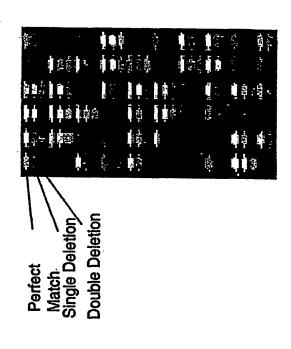
Figure 29

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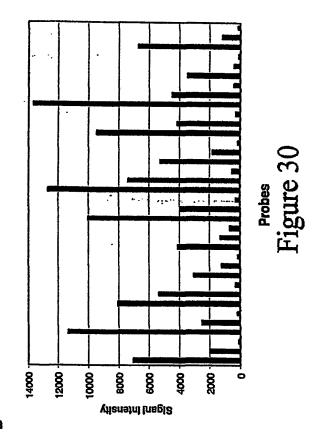
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